

DIVISION 1 - SITEWORK

SECTION 02110

CLEARING AND GRUBBING

PART 1 - GENERAL

1.1 SCOPE

A. Description of Work

1. The contractor shall provide all clearing and grubbing as necessary to complete the work.
2. Provide all labor, material and equipment to perform any additional clearing and grubbing or work as specified herein.

B. Related Work Specified Elsewhere

1. Removal of peat, moss, lignite and vegetable matter below ground other than as specified in this section; Section 02220 - EARTHWORK FOR UTILITIES.
2. Stripping and stockpiling topsoil; Section 02020 - EROSION AND SEDIMENT CONTROL.
3. Soil erosion, Section 02020 - EROSION AND SEDIMENT CONTROL.
4. Special Procedures: Section 01015 - SPECIAL PROJECT PROCEDURES.

C. Pre-Construction Meeting

1. The Contractor shall attend a pre-construction meeting with the Owner and the Engineer to outline clearing and grubbing procedures and to identify any special conditions to be complied with within the various easements and construction zones.

1.2 PROTECTION

- A. Streets, roads, adjacent property and other work to remain shall be protected throughout the work as defined in the General Conditions.

B. Existing trees, shrubs and bushes

1. Trees shall be protected by fencing, barricades, or wrapping as may be required and as shown on the plans.
2. Shrubs and bushes shall be protected by fences or barricades as may be required and as shown on the plans.
3. Shallow-rooted plants shall be protected at ground surface under and in some cases outside the spread of branches by fences, barricades or ground cover protection as may be required.

1.3 REQUIREMENTS OF REGULATORY AGENCIES

- A. Federal, state and local laws and code requirements shall control the disposal of trees and shrubs.

PART 2 PRODUCTS

2.1 MATERIALS

- A. Materials shall be at the Contractor's option.

PART 3 EXECUTION

3.1 GENERAL

- A. When working within temporary or permanent easements, protect all existing property, including trees, shrubbery, lawns, fences, buildings, walls, roads, water courses, natural features or any improvements thereto, from injury or damage. Do not willfully or maliciously injure or destroy trees, shrubs or vegetation. Do not remove or cut them without permission of the Owner.
- B. All operations must be confined to the width of the easements secured by the Owner. All damage done to property resulting from the Contractor's negligence shall be repaired without charge to the satisfaction of the Owner. Excepted are those items (trees, shrubbery, etc.) that must be removed for construction and have been agreed upon beforehand, in writing, between the Contractor and the Owner.

3.2 CLEARING AND GRUBBING

- A. Limits of clearing shall be within the easements, or to limits staked on the ground by the Owner.

- B. Grubbing operations shall be limited to the pipe trench and pumping station site areas. Trees within the limits of clearing but outside the trench area shall be saw cut.
- C. Trees in construction zones or easements shall not be removed until inspected and/or tagged by the Owner or his Representative.
 - 1. No trees shall be removed within the construction zone or rights-of-way except the following:
 - a. Trees within an excavated area such as footing or trench.
 - b. Trees whose root system will be destroyed by the excavation.
 - c. Trees that interfere with the movement of the Contractor's equipment with the approval of the Owner. Any trees that interfere with the movement of the Contractor's equipment shall be reviewed by the Owner before they are removed.
- D. All trees bordering any construction zone or easements shall be protected by acceptable methods. Trees damaged by the Contractor will be either repaired or replaced as determined by the Owner or his Representative at the Contractor's expense.
- E. Vegetation within the areas to be cleared, which may be designated to be saved by the Owner shall be left standing and uninjured.
- F. Remove trees, sapling, shrubs, bushes, vines and undergrowth within the limits of clearing to the heights above ground given in the following table:
 - 1. Trees over 6-inches in diameter: 12 inches.
 - 2. Shrubs, saplings, bushes and trees under 6 inches in diameter: 3 inches.
 - 3. Vines and undergrowth: 2 inches.
- G. Stumps
 - 1. Stumps required to be removed shall be to a depth of 18 inches. This depth shall be measured from the existing ground surface or the proposed finished grade, whichever is the lower.
 - 2. Engineering requirements shall control removal of stumps under fills, foundation, or any construction in contact with the stumps.

3.3 TRIMMING OF TREES

- A. When required, with the Owner's approval, trees shall be trimmed to remove branches or roots which interfere with construction or traffic. Paint all cut branches and roots with wound paint as recommended for the application.

3.4 DISPOSAL

- A. Burning of materials on the site will not be permitted.
- B. Removal:
 - 1. Material to be removed shall be removed from the site daily as it accumulates.
 - 2. Should the Contractor elect to continue work beyond normal working hours, material to be removed shall not be allowed to accumulate for more than 48 hours.
 - 3. Disposal of surplus material within VDOT's rights-of-way is prohibited. All surplus material must be disposed of as the work progresses and shall not be stored on VDOT's rights-of-way for future removal.
- C. Disposal
 - 1. Material may not be disposed of within the Contract area.
 - 2. Prior to depositing surplus material at any off-site location, the Contractor shall obtain a written agreement between himself and the owner of the property on which the disposal is proposed. The agreement shall state that the owner of the property gives permission for the Contractor to enter and deposit the material at no expense to the project Owner. A copy of the agreement shall be furnished to the Owner. Contractor's disposal shall comply with all Federal, State and Local Laws and regulations.

END OF SECTION